Integration of Biometric based Authentication Mechanisms to Prevent ‘Shoulder Surfing’

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Authors:
Hardik Garg, Shibu Dubey, Shabnam Sharma

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Abstract

Nowadays the world has migrated to a social media platform where a social platform is prerequisite for data sharing which is done through texts, multimedia and electronic data over Whatsapp, Instagram, Messenger and many more common platforms where one may be talking about business plans, while some may be talking about their personal lives or they might be sharing any type of confidential information. But what if there are possibilities that someone else can access your confidential data or one can crack your passwords through performing social engineering attacks or many more patches if found and misuse your data or modify it, thus your data is at risk.

In today’s era security is one of the major concerns and the deciding factor for the growth and advancement of the services through a vendor or to an individual, this security can be enforced through different medium either physical or biological security depends which is more preferable according to the scenario. The technology is working to develop a strong and authenticated security system which will not only authorize the user but will provide authentication parameters
for the access of his/her data or data sharing platforms, thus trying to build and implement the advancement of biometrics which requires the measurement of biological characteristics such as fingerprint, retina image, iris pattern, retina image or palm geometry or the unique behavior characteristics using cryptography, technology traits and various secure algorithms and advancement in biometrics which will help to overcome the patches in confidentiality, integrity and availability of data.

References


Index Terms

Computer Science Security

Keywords
Integration of Biometric based Authentication Mechanisms to Prevent 'Shoulder Surfing'

Authentication, Biometrics, Cryptography, Social engineering